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FACSIMILE COVER LETTER

PLEASE DELIVER TO EXAMINER MATTHEW J. MERKLING

DATE : February 5, 2009

TO : Examiner Matthew J. Merkling
Art Unit 1795

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FROM : Frederick J. Dorchak
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CONTENTS : Proposed Amended Claim 1

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Ext 313

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Claim 1 (Currently Amended): Fission reactor for a Claus plant, comprising a boiler (9) lined with refractory material, which comprises a combustion chamber (2) having an inflow opening (12) for a mixture of heating gas, air and acid gas containing H_2S , a catalyst chamber (10) having a catalyst bed (3), and an outflow-side chamber (11) having a gas outlet (13) for hot process gas containing elemental sulfur, wherein the boiler (9) is configured as a horizontal cylindrical boiler, in which the combustion chamber (2), the catalyst chamber (10), and the outflow-side chamber (11) are disposed next to one another, and wherein the catalyst chamber (10) is delimited, on both sides, in the flow direction, by gas-permeable checker bricks (14) containing elongated holes, and has a mantle-side fill opening (15) disposed between the gas-permeable checker bricks (14) for introducing the catalyst bed (3).